

FILTER BANK AND RECEIVER FOR PROCESSING CONTINUOUS PHASE MODULATED SIGNALS

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ABSTRACT OF THE DISCLOSURE

A filter bank (10) and receiver including the filter bank (10) that is designed for processing a baseband signal of a received continuous phase modulated signal $S(t)$ with an integer modulation index. The filter bank (10) has outputs for providing a plurality of decision variable values (d1,d2,d3,d4) each representing a likelihood value of a symbol, from a group of predefined symbols that are likely to be present in the continuous phase modulated signal $S(t)$. The filter bank 10 has filter units (12,14,16,18) each having an impulse response determined by a complex main pulse containing a majority of signal energy of one of the predefined symbols that is likely to be in the continuous phase modulated signal $S(t)$.

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